

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 1 of 1

PATENT NO. : 7,272,135

APPLICATION NO.: 09/431,902

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INVENTOR(S) : K. Ohtsu

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Claim 1 column 14, line 28: "for coin pressing" should be indicated as -- --for compressing-- --.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor : Kazuyuki OHTSU et al.
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Certificate of Corrections Branch
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

REQUEST FOR A CERTIFICATE OF CORRECTION

SIR:

We request a Certificate of Correction under 35 U.S.C. §254, to correct Claim 1, column 14, line 28, which was incorrectly listed as “... **for coin pressing** ...” Please change the same to read: “... **for compressing** ...”

Attached, please find a copy of the page with claim 1, column 14, line 28.

This was due to an error made by the USPTO.

Any fee due as a result of this paper, may be charged to Deposit account No. 50-1290.

Respectfully submitted,

/Nathan Weber/

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Thereafter, in step S21, the GW 10 transmits a message including the effect that "8-Kbps linear compression" is selected as a CODEC form in an upward direction on the IP network 3 to the GW 20.

Upon completion of the capability exchange procedure based on H. 245, in the GW 10, as in Operation 1, the B-channel compression/expansion section 15 is set in a mode in which upward sound data is not expanded. The VoIP compression/expansion section 21 is set in a mode in which upward sound data is not compressed.

In contrast to this, in the GW 20, the VoIP compression/expansion section 21 is set in a mode in which the upward sound data (payload compressed by "8-Kbps linear compression") is expanded. The B-channel compression/expansion section 15 is set in a mode in which the sound data expanded by the VoIP compression/expansion section 21 is compressed by a "16-Kbps linear compression" form.

Therefore, in the GW 10, as in Operation 1, the upward sound data is transmitted to the IP network 3 without being subjected to an expansion/compression process. However, in the GW 20, sound data compressed by "8-Kbps linear compression" is expanded and compressed by "16-Kbps linear compression", and then transmitted to the circuit switched network 2.

Also, in this case, since an expansion/compression process in the GW 10 can be omitted, transmission time of sound data can be shortened, a process load on the GW 10 can be reduced.

<Operation 3>

In Operation 2, the following case has been described. That is, as a result of the H. 225 signaling procedure, the CODEC form of the sound data transmitted from the circuit switched network 1 to the GW 10 is "8-Kbps linear compression". The CODEC form of the sound data transmitted from the GW 20 to the circuit switched network 2 is "16-Kbps linear compression".

In contrast to this, the following case may occur. That is, although the CODEC form of the sound data transmitted from the circuit switched network 1 to the GW 10 is "16-Kbps linear compression", the CODEC form of the sound data transmitted from the GW 20 to the circuit switched network 2 is "8-Kbps linear compression".

In this case, an H. 245 capability exchange procedure shown in FIG. 4 is the same as that in Operation 2. More specifically, in step S13, the GW 20 compares the two CODEC forms described above to select a CODEC form having a low transmission rate (transmission band). The GW 20 transmits a message including "8-Kbps linear compression" to the GW 10 as a CODEC form that can be executed by the GW 20.

Thereafter, in step S17, the GW 20 transmits a message including the effect that "8-Kbps linear compression" is selected as a CODEC form in a downward direction on the IP network 3 to the GW 10.

Thereafter, in step S21, the GW 10 transmits a message including the effect that "8-Kbps linear compression" is selected as a CODEC form in an upward direction on the IP network 3 to the GW 20.

In this manner, upon completion of the H. 245 capability exchange procedure, in the GW 10, the B-channel compression/expansion section 15 is set in a mode in which upward sound data (in-band information compressed by 16-Kbps linear compression) is expanded. The VoIP compression/expansion section 21 is set in a mode in which sound data expanded by the B-channel compression/expansion section 15 is compressed by the "8-Kbps linear compression" form.

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In contrast to this, in the GW 20, as in Operation 1, the B-channel compression/expansion section 15 is set in a mode in which upward sound data is not expanded. The VoIP compression/expansion section 21 is set in a mode in which upward sound data is not compressed.

Therefore, in the GW 10, the upward sound data compressed by "16-Kbps linear compression" is expanded and compressed by "8-Kbps linear compression" to be transmitted to the IP network 3. However, in the GW 20, as in Operation 1, the upward sound data is transmitted to the circuit switched network 2 without being subjected to an expansion/compression process.

Also, in this case, since an expansion/compression process in the GW 20 can be omitted, transmission time of sound data can be shortened, and a process load on the GW 20 can be reduced.

The processes in Operations 1 to 3 described above may be performed in only a case wherein sound data received from the circuit switched network 1 or 2 of each of the GWs 10 and 20 is compressed.

What is claimed is:

1. A gateway apparatus, arranged between an internet protocol network and a circuit switched network, for transmitting data received from the internet protocol network to the circuit switched network, comprising:

an expansion section for expanding compressed data received from the internet protocol network;

a compression section for compressing the data expanded by the expansion section;

a setting section setting a compression form for compressing the data being transmitted to the circuit switched network, wherein the compression form includes a transmission rate;

a judging section judging whether the compression form set by said setting section coincides with the compression form of the compressed data received from the internet protocol network or not; and

a controller performing control such that

when the compression forms judged by the judging section do not coincide, the compressed data received from the internet protocol network is expanded by said expansion section, the expanded data expanded by said expansion section is compressed by said compression section at the compression form set by said setting section, and the compressed data compressed by said compression section is transmitted to the circuit switched network, and

when the compressed forms are judged to coincide, the compressed data received from the internet protocol network is transmitted to the circuit switched network without processing by said expansion section and said compression section.

2. A network system comprising a first gateway apparatus to which a first circuit switched network is connected, a second gateway apparatus to which a second circuit switched network is connected, and an internet protocol network to which the first gateway apparatus and the second gateway apparatus are connected, wherein

the first gateway apparatus comprising:

a notification section giving information of a CODEC form of compressed data, transmitted from the first circuit switched network to the first gateway apparatus, to the second gateway apparatus as CODEC information when compressed data is transmitted from the first circuit switched network to the second circuit switched network through the internet protocol network; and